

008979403 \*\*Image available\*\*  
WPI Acc No: 1992-106672/199214  
XRPX Acc No: N92-079960

**Electronic reprographic system fault clearance - monitors  
system for fault occurrence and accesses and displays stored instructions  
upon detection of fault occurrence**

Patent Assignee: XEROX CORP (XERO )

Inventor: GAURONSKI J F; KNODT K T

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 478343	A	19920401	EP 91308822	A	19910927	199214 B
EP 478343	A3	19920805	EP 91308822	A	19910927	199336
US 5467449	A	19951114	US 90589630	A	19900928	199551
			US 94208071	A	19940309	
			US 95380919	A	19950131	
<b>EP 478343</b>	<b>B1</b>	<b>19970416</b>	<b>EP 91308822</b>	<b>A</b>	<b>19910927</b>	<b>199720</b>
DE 69125677	E	19970522	DE 625677	A	19910927	199726
			EP 91308822	A	19910927	
JP 3098584	B2	20001016	JP 91242023	A	19910920	200054

Priority Applications (No Type Date): US 90589630 A 19900928; US 94208071 A 19940309; US 95380919 A 19950131

Cited Patents: No-SR.Pub; DE 3327905; DE 3922115; EP 376473; GB 2166619; US 4876606; US 4583834; US 4789985

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 478343	A		36		

Designated States (Regional): DE FR GB

US 5467449	A	34	G06F-011/34	Cont of application US 90589630
				Cont of application US 94208071

**EP 478343 B1 E 42 H04N-001/00**

**Designated States (Regional): DE FR GB**

DE 69125677	E		H04N-001/00	Based on patent EP 478343
JP 3098584	B2	23	B41J-029/46	Previous Publ. patent JP 4314573

Abstract (Basic): EP 478343 A

Clearance and recovery instructions are stored in memory (61) for specific system faults. Faults having similar clearance and recovery instructions are grouped into buckets upon detection of a fault occurrence.

The stored clearance and recovery instructions are then accessed and the appropriate instructions corresponding to the fault are displayed to the operator enabling the operator to initiate clearance and recovery from the fault. The system is also monitored for predictable fault occurrences, and warnings are displayed to the operator upon determination that specific system operations will result in a fault occurrence when this is monitored.

**ADVANTAGE** - Provides electronic reprographic system which displays to operator clearance and recovery steps needed to be taken upon detection of fault.

Dwg.2/12

Abstract (Equivalent): EP 478343 B

A method for clearance and recovery of faults in an electronic reprographic system, including:

- storing in memory clearance and recovery instructions for specific system faults;

- monitoring the system for fault occurrence during a normal system operating mode;

- detecting at least one fault occurrence during the normal system operating mode;

- grouping the at least one detected fault occurrence into at least one fault bucket, each fault bucket having a unique set of specific clearance and recovery instructions corresponding to the fault bucket and each fault bucket comprising a collection of faults which require the same unique set of specific clearance and recovery instructions corresponding to the fault bucket;

- automatically accessing, based on at least one fault bucket, at least one unique set of specific clearance and recovery instructions corresponding to the at least one fault bucket;

- automatically initiating clearance of and recovery from the at least one fault occurrence using the accessed at least one unique set of specific clearance and recovery instructions without requiring an operator to assist in restoring the system to the normal system operating mode; and

- automatically displaying appropriate ones of the accessed clearance and recovery instructions corresponding to the at least one fault bucket when automatic recovery from the at least one fault occurrence fails to restore the system to the normal system operating mode, the appropriate ones of the accessed clearance and recovery instructions enabling an operator to manually initiate and perform clearance and recovery.

Dwg.1/12g

Abstract (Equivalent): US 5467449 A

A method for clearance and recovery of faults in an electronic reprographic system, comprising the steps of:

storing in memory clearance and recovery instructions for specific system faults;

monitoring the system for fault occurrence during a normal system operating mode;

detecting at least two fault occurrences during the normal system operating mode;

grouping the at least two detected fault occurrences into at least one fault bucket, each fault bucket having a unique set of specific clearance and recovery instructions corresponding to the fault bucket and each fault bucket comprising a collection of faults which require the same unique set of specific clearance and recovery instructions corresponding to the fault bucket;

automatically accessing, based on at least one fault bucket, at least one unique set of specific clearance and recovery instructions corresponding to the at least one fault bucket;

automatically initiating clearance of and recovery from the at least two fault occurrences using the accessed at least one unique set of specific clearance and recovery instructions without requiring an operator to assist in restoring the system to the normal system operating mode; and

automatically displaying appropriate ones of the accessed clearance and recovery instructions corresponding to the at least one fault bucket when automatic recovery from the at least two fault occurrences fails to restore the system to the normal system operating mode, the appropriate ones of the accessed clearance and recovery instructions enabling an operator to manually initiate and perform clearance and recovery.

Dwg.8/12

Title Terms: ELECTRONIC; REPROGRAPHIC; SYSTEM; FAULT; CLEARANCE; MONITOR;  
SYSTEM; FAULT; OCCUR; ACCESS; DISPLAY; STORAGE; INSTRUCTION; DETECT;  
FAULT; OCCUR

Derwent Class: P75; P84; S06; W02

International Patent Class (Main): B41J-029/46; G06F-011/34; H04N-001/00

International Patent Class (Additional): G03G-015/00

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): S06-A14B; W02-J03A5

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**EP 478343      B1 E    42 H04N-001/00**

**Designated States (Regional): DE FR GB**

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Abstract (Basic): EP 478343 A

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The stored clearance and recovery instructions are then accessed and the appropriate instructions corresponding to the fault are displayed to the operator enabling the operator to initiate clearance and recovery from the fault. The system is also monitored for predictable fault occurrences, and warnings are displayed to the operator upon determination that specific system operations will result in a fault occurrence when this is monitored.

**ADVANTAGE** - Provides electronic reprographic system which displays to operator clearance and recovery steps needed to be taken upon detection of fault.

Dwg.2/12

Abstract (Equivalent): EP 478343 B

A method for clearance and recovery of faults in an electronic reprographic system, including:

- storing in memory clearance and recovery instructions for specific system faults;

- monitoring the system for fault occurrence during a normal system operating mode;

- detecting at least one fault occurrence during the normal system operating mode;

- grouping the at least one detected fault occurrence into at least one fault bucket, each fault bucket having a unique set of specific clearance and recovery instructions corresponding to the fault bucket and each fault bucket comprising a collection of faults which require the same unique set of specific clearance and recovery instructions corresponding to the fault bucket;

- automatically accessing, based on at least one fault bucket, at least one unique set of specific clearance and recovery instructions corresponding to the at least one fault bucket;

- automatically initiating clearance of and recovery from the at least one fault occurrence using the accessed at least one unique set of specific clearance and recovery instructions without requiring an operator to assist in restoring the system to the normal system operating mode; and

- automatically displaying appropriate ones of the accessed clearance and recovery instructions corresponding to the at least one fault bucket when automatic recovery from the at least one fault occurrence fails to restore the system to the normal system operating mode, the appropriate ones of the accessed clearance and recovery instructions enabling an operator to manually initiate and perform clearance and recovery.

Dwg.1/12g

Abstract (Equivalent): US 5467449 A

A method for clearance and recovery of faults in an electronic reprogrammable system, comprising the steps of:

storing in memory clearance and recovery instructions for specific system faults;

monitoring the system for fault occurrence during a normal system operating mode;

detecting at least two fault occurrences during the normal system operating mode;

grouping the at least two detected fault occurrences into at least one fault bucket, each fault bucket having a unique set of specific clearance and recovery instructions corresponding to the fault bucket and each fault bucket comprising a collection of faults which require the same unique set of specific clearance and recovery instructions corresponding to the fault bucket;

automatically accessing, based on at least one fault bucket, at least one unique set of specific clearance and recovery instructions corresponding to the at least one fault bucket;

automatically initiating clearance of and recovery from the at least two fault occurrences using the accessed at least one unique set of specific clearance and recovery instructions without requiring an operator to assist in restoring the system to the normal system operating mode; and

automatically displaying appropriate ones of the accessed clearance and recovery instructions corresponding to the at least one fault bucket when automatic recovery from the at least two fault occurrences fails to restore the system to the normal system operating mode, the appropriate ones of the accessed clearance and recovery instructions enabling an operator to manually initiate and perform clearance and recovery.

Dwg.8/12

Title Terms: ELECTRONIC; REPROGRAMMABLE; SYSTEM; FAULT; CLEARANCE; MONITOR;  
SYSTEM; FAULT; OCCUR; ACCESS; DISPLAY; STORAGE; INSTRUCTION; DETECT;  
FAULT; OCCUR

Derwent Class: P75; P84; S06; W02

International Patent Class (Main): B41J-029/46; G06F-011/34; H04N-001/00

International Patent Class (Additional): G03G-015/00

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): S06-A14B; W02-J03A5